

Appln No. 10/039,952
Amdt date March 23, 2005
Reply to Office action of January 13, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17 (Cancelled)

18. (Currently Amended) A method for ~~the production of~~ producing an amine from a target ketone, comprising:

creating a mutated enzyme that catalyzes ~~the~~ reductive amination or transamination of the target ketone; and

providing the mutated enzyme in a reaction mixture comprising the target ketone under conditions sufficient to permit the formation of the amine to thereby produce the amine.

19. (Currently Amended) The method of claim 18, wherein the mutated enzyme catalyzes ~~the~~ reductive amination of the target ketone.

20. (Original) The method of claim 19, wherein the mutated enzyme is an amino acid dehydrogenase.

21. (Currently Amended) The method of claim 19, further comprising providing an existing enzyme that catalyzes ~~the~~ reductive amination of a ketone, wherein the mutated enzyme is created by mutating the existing enzyme, and further wherein the mutated enzyme catalyzes the reductive amination of the target ketone at a greater rate than the existing enzyme.

22. (Currently Amended) The method of claim 18, wherein the mutated enzyme catalyzes ~~the~~ transamination of the target ketone.

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23. (Original) The method of claim 22, wherein the mutated enzyme is selected from the group consisting of aspartic-glutamic transaminases, aromatic amino acid transaminases, and branched-chain amino acid transaminases.

24. (Currently Amended) The method of claim 22, further comprising providing an existing enzyme that catalyzes ~~the~~ transamination of a ketone, wherein the mutated enzyme is created by mutating the existing enzyme, and further wherein the mutated enzyme catalyzes the transamination of the target ketone at a greater rate than the existing enzyme.

25-30 (Cancelled)